



SYNA INTERNATIONAL SCHOOL, KATNI
SUMMER ASSIGNMENT (2024-25)
GRADE-X

ENGLISH

1. Project

How to do -

Prepare a project on the theme 'Conflict between man and nature and among human beings themselves' as portrait in the chapter 'A Letter to God'. Give details regarding the incidence and support the examples with proper evidences.

Where to do - A4 size sheet

OR

You have just read two of the poems of Robert Frost . Make a detailed project on this American poet highlighting the following topics - ••••Biography

- Work
- Awards and recognition
- Legacy and cultural influence.

2 Poster Making*

Make a poster portraying your thoughts and point of view on :

Love for freedom is the natural Instinct of every living being

You may read Leslie Norris's A Tiger in the Zoo for your reference.

Where to do - A4 size sheet.

HINDI

1. प्रेमचंद की अमर कहानियाँ पुस्तक के पाठ – (1.मुक्ति धन 2. परीक्षा 3. दूध का दाम 4. धिक्कार 5. मंत्र)पढ़कर उसका सारांश फाइल में लिखिए ।
2. किसी राष्ट्रीय समाचार पत्र को पढ़कर (15 दिन के)उसके मुख्य समाचारों के प्रमुख बिन्दुओं को लिखकर फाइल तैयार कीजिए ।

ASSIGNMENT : [TO BE DONE IN 100 PAGES SMALL TEST COPY]

1. Write a fundamental theorem of arithmetics with an example and factorize 1250 by tree method.
2. Find the HCF and LCM of the following pair of integers and verify that $LCM \times HCF = \text{Product of two numbers}$ 336 and 54.
3. Prove that $3 + 2\sqrt{5}$ is an irrational number.
4. Prove that $\sqrt{5}$ is an irrational number.
5. Open-ended: Write terminating and non terminating (recurring and non-recurring) decimals with examples.
6. Subject integration: Define: Polynomial, degree of the polynomial, Zeros of polynomial, Constant polynomial, Linear, Quadratic and cubic polynomial.
7. Critical Thinking: Find the zeros of the polynomial $x^2 - 13x + 30$ and verify the relationship between zeros and coefficients.
8. (a) Find a quadratic polynomial whose sum of zeros is $13/6$ and their product is 1. Also find the zeros of the polynomial.
(b) Find a cubic polynomial whose zeros are 2, -3 and 4.
9. Analysis error: Teacher asked the students 'Is 65 the largest number which divides 320 and 457, leaving remainders 5 and 7 respectively? the student answered 'No, it is 45'. Identify the error and rectify it.
10. Assertion and reasoning: In each of the following questions, an Assertion (A) and a corresponding Reason (R) supporting it are given. Study both the statements and state which of the following is correct.
 - (a) Both A and R are true and R is the correct explanation of A.
 - (b) Both A and R are true and R is not the correct explanation of A.
 - (c) A is true but R is false
 - (d) A is false but R is true.
 1. Assertion (A) : Two numbers have 3 as their HCF and 125 as their LCM.
Reason (R) : HCF 3 does not divide LCM 125.
 2. Assertion (A) : 3 divides 36, then 3 divides 6 also.
Reason (R) : If p is a prime number and p divides 'a²', then p divides 'a' also, where a is a positive integer.

(Case based question):

11. The director of the Blue Rose club must decide what to charge for a ticket to the club's performance of The Music Man. If the price is set too low, the club will lose money; and if the price is too high, people won't come. From past experience she estimates that the profit P from sales (in hundreds) can be approximated by $P(x) = -x^2 + 22x - 40$ where x is the cost of a ticket and x lies between 0 and 25 (including 0 & 25) thousand rupees
- (i) What is the lowest cost of a ticket that would allow the club to break even.
(a) Rs 3 thousand (b) Rs 4 thousand (c) Rs 2 thousand (d) Rs 1 thousand
 - (ii) What is the highest cost that the club can charge to break even?
(a) Rs 16 thousand (b) Rs 14 thousand (c) Rs 4 thousand (d) Rs 20 thousand
 - (iii) If club charge Rs 4 thousand for each ticket, what is the profit/loss ?
(a) Loss Rs16000 (b) Profit Rs16000 (c) Loss Rs32000 (d) Profit Rs 32000
 - (iv) If club charge Rs 25 thousand for each ticket, what is the profit/loss ?

- (a) Loss Rs115000(b) Profit Rs 85000(c) Loss Rs 85000(d) Profit Rs115000.
(v) What is the maximum profit which can be earned by club ?
(a) Rs 40000 (b)Rs 81000 (c) Rs 61000 X²(d) Rs 42000

PROJECT / ACTIVITY :

Make a mathematical working model on any topic which would be selected from You– Tube or from any other Google sites.

SCIENCE

1. Draw 3D Charts/working model or stationary model on anyone of the following topic
 - a. pumping of heart
 - b. Digestive system
 - c. Excretory system
 - d. Human brain
 - e. Nervous system
2. Prepare a chart or model showing cations, anions and formulas of chemicals used in daily life .
3. Prepare a presentation on usage of spherical mirrors in our daily life as well as in scientific endeavors.
4. prepare a stationary model on a household circuit.

SOCIALSCIENCE

Prepare A Pen Paper or A PPT project on the basis of following guidelines:

Mode : A file project or A PPT.

“The *economic contribution* of tourism refers to tourism’s economic significance – to the contribution that tourism-related spending makes to ... Gross Domestic (Regional) Product, household income, value added, foreign exchange earnings, employment”

On the basis of this information prepare a project by choosing the places to visit, currency, impact of weather, roads, hotels, language in India, US, Bali, Japan, Australia, China, Singapore in the past 10 years.

Data collection on local Government M.P. and Bihar. in form of PPT with comparison mode.

TOURISM

PROJECT A:

Fam Tour

Contents

Unit Overview & Description

- Visit to a Tourism Organization(Travel Agency / Tour Operator)
- Report on the Visit
- Visit to Local/Nearby Museum
- Report on the Visit
- Do's and Don'ts for Tourist (Sustainable Practices)

PROJECT B

- Sustainable tourism practices and their impact on local communities and the environment.
- The role of technology in enhancing the tourist experience.
- Cultural heritage preservation and its importance in tourism.
- Tourism marketing strategies and their effectiveness.
- The impact of global events (such as pandemics or natural disasters) on tourism.
- Tourism policy and governance at local, national, and international levels.
- The influence of social media on tourist behavior and destination choices.
- The development of ecotourism and adventure tourism.
- Tourism's contribution to the economy and employment in specific regions.
- The ethical considerations in wildlife tourism and animal welfare.

ART/CRAFT

Madhubani Folk Painting-1

Sheet Size-A3

Medium-Poster Colour on Cartridge Sheet